

4

EXERCISE

The Cell: Anatomy and Division

The Anatomy of the Composite Cell section can be given as an out-of-class assignment to save time. This might be necessary if audiovisual material is used.



Time Allotment: 2 hours.



Multimedia Resources: See Appendix B for Guide to Multimedia Resource Distributors.

Inside the Living Cell (WNS: 50 minutes, DVD)

An Introduction to the Living Cell (CBS: 30 minutes, DVD)

A Journey Through the Cell (PBS: DVD)

Part One: Cells: An Introduction (20 minutes)

Part Two: Cell Functions: A Closer Look (20 minutes)

Mitosis and Meiosis (DE: 25 minutes, VHS, DVD)

Practice Anatomy Lab™ 3.0 (PAL) (PE: DVD, Website)

Laboratory Materials

Ordering information is based on a lab size of 24 students, working in groups of 4. A list of supply house addresses appears in Appendix A.

3-D model of composite cell or chart of cell anatomy

24 slides of simple squamous epithelium

24 slides of teased smooth muscle

24 slides of human blood cell smear

24 slides of sperm

24 slides of whitefish blastulae

24 compound microscopes, lens paper, lens cleaning solution, immersion oil

3-D models of mitotic stages

Video or animation of mitosis

Chenille sticks (pipe cleaners), two different colors, cut into 3-inch pieces

Advance Preparation

1. Set out slides (one per student) of simple squamous epithelium, teased smooth muscle, human blood cell smear, sperm, and whitefish blastulae. Students will also need lens paper, lens cleaning solution, immersion oil, and compound microscopes.
2. Set out a model or a lab chart of a composite cell, and models of mitotic stages.
3. Obtain the chenille sticks (pipe cleaners) in two different colors, and cut each into 3-inch pieces. Set out 8 pieces per group, 4 of each color.

Comments and Pitfalls

1. Observing differences and similarities in cell structure often gives students trouble, as many of them have never seen any cells other than epithelial cells. Slides or pictures of these cell types might help.

Anatomy Lab Manual Cell Answers

Kevin T. Patton



Anatomy Lab Manual Cell Answers:

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